

At page 72, line 7, insert --(SEQ ID NO:57)-- after "AAC-3")"  
 At page 72, line 8, insert --(SEQ ID NO:58)-- after "TTC-3' "  
 At page 73, line 7, insert --(SEQ ID NO:59)-- after "TGC-3")"  
 At page 73, line 14, insert --(SEQ ID NO:60)-- after "GC3' "  
 At page 75, line 11, insert --(SEQ ID NO:61)-- after "TAG-3' "  
 At page 75, line 13, insert --(SEQ ID NO:62)-- after "GGA-3' "  
 At page 76, line 16, insert --(SEQ ID NO:63)-- after "GAC-3")"  
 At page 76, line 33, insert --(SEQ ID NO:64)-- after "ACC-3")"

### IN THE CLAIMS

Please amend the claims as follows:

In claim 62, delete "2" and insert -87--

In claim 63, delete "27" and insert -97--

In claim 64, delete "28" and insert -98--

In claim 74, delete "2" and insert -87--

Add new claims 87 - 131

Delete claims 63, 64, 66-70, 72, and 73.

~~63.~~ (Amended) An isolated DNA molecule coding for a polypeptide having the ability to bind TNF, wherein said polypeptide is selected from the group consisting of:

A) a polypeptide comprising the amino acid sequence:

asp	ser	val	cys	pro	gln	gly	lys	tyr	ile	his	pro	gln
asn	asn	ser	ile	cys	cys	thr	lys	cys	his	lys	gly	thr
tyr	leu	tyr	asn	asp	cys	pro	gly	pro	gly	gln	asp	thr
asp	cys	arg	glu	cys	glu	ser	gly	ser	phe	thr	ala	ser
glu	asn	his	leu	arg	his	cys	leu	ser	cys	ser	lys	cys
arg	lys	glu	met	gly	gln	val	glu	ile	ser	ser	cys	thr
val	asp	arg	asp	thr	val	cys	gly	cys	arg	lys	asn	gln
tyr	arg	his	tyr	trp	ser	glu	asn	leu	phe	gln	cys	phe
asn	cys	ser	leu	cys	leu	asn	gly	thr	val	his	leu	ser

cys	gln	glu	lys	gln	asn	thr	val	cys	thr	cys	his	ala
gly	phe	phe	leu	arg	glu	asn	glu	cys	val	ser	cys	ser
asn	cys	lys	lys	ser	leu	glu	cys	thr	lys	leu	cys	leu
pro	gln	ile	glu	asn								

[, or a C- and/or N- terminally shortened sequence thereof];

B) a polypeptide comprising the amino acid sequence:

1880X

leu	val	pro	his	leu	gly	asp	arg	glu	lys	arg	asp	ser	val
cys	pro	gln	gly	lys	tyr	ile	his	pro	gln	asn	asn	ser	ile
cys	cys	thr	lys	cys	his	lys	gly	thr	tyr	leu	tyr	asn	asp
cys	pro	gly	pro	gly	gln	asp	thr	asp	cys	arg	glu	cys	glu
ser	gly	ser	phe	thr	ala	ser	glu	asn	his	leu	arg	his	cys
leu	ser	cys	ser	lys	cys	arg	lys	glu	met	gly	gln	val	glu
ile	ser	ser	cys	thr	val	asp	arg	asp	thr	val	cys	gly	cys
arg	lys	asn	gln	tyr	arg	his	tyr	trp	ser	glu	asn	leu	phe
gln	cys	phe	asn	cys	ser	leu	cys	leu	asn	gly	thr	val	his
leu	ser	cys	gln	glu	lys	gln	asn	thr	val	cys	thr	cys	his
ala	gly	phe	phe	leu	arg	glu	asn	glu	cys	val	ser	cys	ser
asn	cys	lys	lys	ser	leu	glu	cys	thr	lys	leu	cys	leu	pro
gln	ile	glu	asn;										

[, or a C- and/or N- terminally shortened sequence thereof]

C) a polypeptide comprising the amino acid sequence:

1881X

asp	ser	val	cys	pro	gln	gly	lys	tyr	ile	his	pro	gln	asn
asn	ser	ile	cys	cys	thr	lys	cys	his	lys	gly	thr	tyr	leu
tyr	asn	asp	cys	pro	gly	pro	gly	gln	asp	thr	asp	cys	arg
glu	cys	glu	ser	gly	ser	phe	thr	ala	ser	glu	asn	his	leu
arg	his	cys	leu	ser	cys	ser	lys	cys	arg	lys	glu	met	gly
gln	val	glu	ile	ser	ser	cys	thr	val	asp	arg	asp	thr	val
cys	gly	cys	arg	lys	asn	gln	tyr	arg	his	tyr	trp	ser	glu
asn	leu	phe	gln	cys	phe	asn	cys	ser	leu	cys	leu	asn	gly
thr	val	his	leu	ser	cys	gln	glu	lys	gln	asn	thr	val	cys
thr	cys	his	ala	gly	phe	phe	leu	arg	glu	asn	glu	cys	val
ser	cys	ser	asn	cys	lys	lys	ser	leu	glu	cys	thr	lys	leu
cys	leu	pro	gln	ile	glu	asn	val	lys	gly	thr	glu	asp	ser
gly	thr	thr											

[, or a C- and/or N- terminally shortened sequence thereof]; ~~and~~

D) a polypeptide comprising the amino acid sequence:

1882X

leu	val	pro	his	leu	gly	asp	arg	glu	lys	arg	asp	ser	val
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

cys	pro	gln	gly	lys	tyr	ile	his	pro	gln	asn	asn	ser	ile
cys	cys	thr	lys	cys	his	lys	gly	thr	tyr	leu	tyr	asn	asp
cys	pro	gly	pro	gly	gln	asp	thr	asp	cys	arg	glu	cys	glu
ser	gly	ser	phe	thr	ala	ser	glu	asn	his	leu	arg	his	cys
leu	ser	cys	ser	lys	cys	arg	lys	glu	met	gly	gln	val	glu
ile	ser	ser	cys	thr	val	asp	arg	asp	thr	val	cys	gly	cys
arg	lys	asn	gln	tyr	arg	his	tyr	trp	ser	glu	asn	leu	phe
gln	cys	phe	asn	cys	ser	leu	cys	leu	asn	gly	thr	val	his
leu	ser	cys	gln	glu	lys	gln	asn	thr	val	cys	thr	cys	his
ala	gly	phe	phe	leu	arg	glu	asn	glu	cys	val	ser	cys	ser
asn	cys	lys	lys	ser	leu	glu	cys	thr	lys	leu	cys	leu	pro
gln	ile	glu	asn	val	lys	gly	thr	glu	asp	ser	gly	thr	thr;

[. or a C- and/or N- terminally shortened sequence thereof]

E) a polypeptide comprising the amino acid sequence of A, B, C or D with at least one conservative amino acid substitution;

F) a polypeptide comprising the amino acid sequence of A, B, C or D with at least one amino acid substitution at a glycosylation site;

G) a polypeptide comprising the amino acid sequence of A, B, C or D with at least one amino acid substitution at a proteolytic cleavage site; and

H) a polypeptide comprising the amino acid sequence of A, B, C or D with at least one amino acid substitution at a cysteine residue.

71. (Amended) An isolated DNA molecule coding for a polypeptide having the ability to bind TNF selected from the group consisting of:

A) a polypeptide comprising the amino acid sequence:

met	asp	ser	val	cys	pro	gln	gly	lys	tyr	ile	his	pro	gln
asn	asn	ser	ile	cys	cys	thr	lys	cys	his	lys	gly	thr	tyr
leu	tyr	asn	asp	cys	pro	gly	pro	gly	gln	asp	thr	asp	cys
arg	glu	cys	glu	ser	gly	ser	phe	thr	ala	ser	glu	asn	his
leu	arg	his	cys	leu	ser	cys	ser	lys	cys	arg	lys	glu	met
gly	gln	val	glu	ile	ser	ser	cys	thr	val	asp	arg	asp	thr
val	cys	gly	cys	arg	lys	asn	gln	tyr	arg	his	tyr	trp	ser
glu	asn	leu	phe	gln	cys	phe	asn	cys	ser	leu	cys	leu	asn
gly	thr	val	his	leu	ser	cys	gln	glu	lys	gln	asn	thr	val
cys	thr	cys	his	ala	gly	phe	phe	leu	arg	glu	asn	glu	cys
val	ser	cys	ser	asn	cys	lys	lys	ser	leu	glu	cys	thr	lys

leu cys leu pro gln ile glu asn

[, or a C- and/or N- terminally shortened sequence thereof];

B) a polypeptide comprising the amino acid sequence:

met leu val pro his leu gly asp arg glu lys arg asp ser  
val cys pro gln gly lys tyr ile his pro gln asn asn ser  
ile cys cys thr lys cys his lys gly thr tyr leu tyr asn  
asp cys pro gly pro gly gln asp thr asp cys arg glu cys  
glu ser gly ser phe thr ala ser glu asn his leu arg his  
cys leu ser cys ser lys cys arg lys glu met gly gln val  
glu ile ser ser cys thr val asp arg asp thr val cys gly  
cys arg lys asn gln tyr arg his tyr trp ser glu asn leu  
phe gln cys phe asn cys ser leu cys leu asn gly thr val  
his leu ser cys gln glu lys gln asn thr val cys thr cys  
his ala gly phe phe leu arg glu asn glu cys val ser cys  
ser asn cys lys lys ser leu glu cys thr lys leu cys leu  
pro gln ile glu asn

[, or a C- and/or N- terminally shortened sequence thereof];

C) a polypeptide comprising the amino acid sequence:

met asp ser val cys pro gln gly lys tyr ile his pro gln  
asn asn ser ile cys cys thr lys cys his lys gly thr tyr  
leu tyr asn asp cys pro gly pro gly gln asp thr asp cys  
arg glu cys glu ser gly ser phe thr ala ser glu asn his  
leu arg his cys leu ser cys ser lys cys arg lys glu met  
gly gln val glu ile ser ser cys thr val asp arg asp thr  
val cys gly cys arg lys asn gln tyr arg his tyr trp ser  
glu asn leu phe gln cys phe asn cys ser leu cys leu asn  
gly thr val his leu ser cys gln glu lys gln asn thr val  
cys thr cys his ala gly phe phe leu arg glu asn glu cys  
val ser cys ser asn cys lys lys ser leu glu cys thr lys  
leu cys leu pro gln ile glu asn val lys gly thr glu asp  
ser gly thr thr

[, or a C- and/or N- terminally shortened sequence thereof];

D) a polypeptide comprising the amino acid sequence:

met leu val pro his leu gly asp arg glu lys arg asp ser  
val cys pro gln gly lys tyr ile his pro gln asn asn ser  
ile cys cys thr lys cys his lys gly thr tyr leu tyr asn

asp	cys	pro	gly	pro	gly	gln	asp	thr	asp	cys	arg	glu	cys
glu	ser	gly	ser	phe	thr	ala	ser	glu	asn	his	leu	arg	his
cys	leu	ser	cys	ser	lys	cys	arg	lys	glu	met	gly	gln	val
glu	ile	ser	ser	cys	thr	val	asp	arg	asp	thr	val	cys	gly
cys	arg	lys	asn	gln	tyr	arg	his	tyr	trp	ser	glu	asn	leu
phe	gln	cys	phe	asn	cys	ser	leu	cys	leu	asn	gly	thr	val
his	leu	ser	cys	gln	glu	lys	gln	asn	thr	val	cys	thr	cys
his	ala	gly	phe	phe	leu	arg	glu	asn	glu	cys	val	ser	cys
ser	asn	cys	lys	lys	ser	leu	glu	cys	thr	lys	leu	cys	leu
pro	gln	ile	glu	asn	val	lys	gly	thr	glu	asp	ser	gly	thr

[, or a C- and/or N- terminally shortened sequence thereof];

E) a polypeptide comprising the amino acid sequence:

met	gly	leu	ser	thr	val	pro	asp	leu	leu	leu	pro	leu	val
leu	leu	glu	leu	leu	val	gly	ile	tyr	pro	ser	gly	val	ile
gly	leu	val	pro	his	leu	gly	asp	arg	glu	lys	arg	asp	ser
val	cys	pro	gln	gly	lys	tyr	ile	his	pro	gln	asn	asn	ser
ile	cys	cys	thr	lys	cys	his	lys	gly	thr	tyr	leu	tyr	asn
asp	cys	pro	gly	pro	gly	gln	asp	thr	asp	cys	arg	glu	cys
glu	ser	gly	ser	phe	thr	ala	ser	glu	asn	his	leu	arg	his
cys	leu	ser	cys	ser	lys	cys	arg	lys	glu	met	gly	gln	val
glu	ile	ser	ser	cys	thr	val	asp	arg	asp	thr	val	cys	gly
cys	arg	lys	asn	gln	tyr	arg	his	tyr	trp	ser	glu	asn	leu
phe	gln	cys	phe	asn	cys	ser	leu	cys	leu	asn	gly	thr	val
his	leu	ser	cys	gln	glu	lys	gln	asn	thr	val	cys	thr	cys
his	ala	gly	phe	phe	leu	arg	glu	asn	glu	cys	val	ser	cys
ser	asn	cys	lys	lys	ser	leu	glu	cys	thr	lys	leu	cys	leu
pro	gln	ile	glu	asn									

[, or a C- and/or N- terminally shortened sequence thereof];

F) a polypeptide comprising the amino acid sequence:

met	gly	leu	ser	thr	val	pro	asp	leu	leu	leu	pro	leu	val
leu	leu	glu	leu	leu	val	gly	ile	tyr	pro	ser	gly	val	ile
gly	leu	val	pro	his	leu	gly	asp	arg	glu	lys	arg	asp	ser
val	cys	pro	gln	gly	lys	tyr	ile	his	pro	gln	asn	asn	ser
ile	cys	cys	thr	lys	cys	his	lys	gly	thr	tyr	leu	tyr	asn
asp	cys	pro	gly	pro	gly	gln	asp	thr	asp	cys	arg	glu	cys
glu	ser	gly	ser	phe	thr	ala	ser	glu	asn	his	leu	arg	his
cys	leu	ser	cys	ser	lys	cys	arg	lys	glu	met	gly	gln	val

glu	ile	ser	ser	cys	thr	val	asp	arg	asp	thr	val	cys	gly
cys	arg	lys	asn	gln	tyr	arg	his	tyr	trp	ser	glu	asn	leu
phe	gln	cys	phe	asn	cys	ser	leu	cys	leu	asn	gly	thr	val
his	leu	ser	cys	gln	glu	lys	gln	asn	thr	val	cys	thr	cys
his	ala	gly	phe	phe	leu	arg	glu	asn	glu	cys	val	ser	cys
ser	asn	cys	lys	lys	ser	leu	glu	cys	thr	lys	leu	cys	leu
pro	gln	ile	glu	asn	val	lys	gly	thr	glu	asp	ser	gly	thr
thr													

[, or a C- and/or N- terminally shortened sequence thereof];

G) a polypeptide comprising the amino acid sequence:

met	gly	leu	ser	thr	val	pro	asp	leu	leu	leu	pro
leu	val	leu	leu	glu	leu	leu	val	gly	ile	tyr	pro
ser	gly	val	ile	gly	asp	ser	val	cys	pro	gln	gly
lys	tyr	ile	his	pro	gln	asn	asn	ser	ile	cys	cys
thr	lys	cys	his	lys	gly	thr	tyr	leu	tyr	asn	asp
cys	pro	gly	pro	gly	gln	asp	thr	asp	cys	arg	glu
cys	glu	ser	gly	ser	phe	thr	ala	ser	glu	asn	his
leu	arg	his	cys	leu	ser	cys	ser	lys	cys	arg	lys
glu	met	gly	gln	val	glu	ile	ser	ser	cys	thr	val
asp	arg	asp	thr	val	cys	gly	cys	arg	lys	asn	gln
tyr	arg	his	tyr	trp	ser	glu	asn	leu	phe	gln	cys
phe	asn	cys	ser	leu	cys	leu	asn	gly	thr	val	his
leu	ser	cys	gln	glu	lys	gln	asn	thr	val	cys	thr
cys	his	ala	gly	phe	phe	leu	arg	glu	asn	glu	cys
val	ser	cys	ser	asn	cys	lys	lys	ser	leu	glu	cys
thr	lys	leu	cys	leu	pro	gln	ile	glu	asn		

[, or a C- and/or N- terminally shortened sequence thereof];

H) a polypeptide comprising the amino acid sequence:

met	gly	leu	ser	thr	val	pro	asp	leu	leu	leu	pro	leu	val
leu	leu	glu	leu	leu	val	gly	ile	tyr	pro	ser	gly	val	ile
gly	asp	ser	val	cys	pro	gln	gly	lys	tyr	ile	his	pro	gln
asn	asn	ser	ile	cys	cys	thr	lys	cys	his	lys	gly	thr	tyr
leu	tyr	asn	asp	cys	pro	gly	pro	gly	gln	asp	thr	asp	cys
arg	glu	cys	glu	ser	gly	ser	phe	thr	ala	ser	glu	asn	his
leu	arg	his	cys	leu	ser	cys	ser	lys	cys	arg	lys	glu	met
gly	gln	val	glu	ile	ser	ser	cys	thr	val	asp	arg	asp	thr
val	cys	gly	cys	arg	lys	asn	gln	tyr	arg	his	tyr	trp	ser
glu	asn	leu	phe	gln	cys	phe	asn	cys	ser	leu	cys	leu	asn
gly	thr	val	his	leu	ser	cys	gln	glu	lys	gln	asn	thr	val

cys	thr	cys	his	ala	gly	phe	phe	leu	arg	glu	asn	glu	cys
val	ser	cys	ser	asn	cys	lys	lys	ser	leu	glu	cys	thr	lys
leu	cys	leu	pro	gln	ile	glu	asn	val	lys	gly	thr	glu	asp
ser	gly	thr	thr										

I

[, or a C- and/or N- terminally shortened sequence thereof]; and

I) a polypeptide comprising the amino acid sequence:

7930P

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met	gly	leu	ser	thr	val	pro	asp	leu	leu	leu	pro	leu	val
leu	leu	glu	leu	leu	val	gly	ile	tyr	pro	ser	gly	val	ile
gly	leu	val	pro	his	leu	gly	asp	arg	glu	lys	arg	asp	ser
val	cys	pro	gln	gly	lys	tyr	ile	his	pro	gln	asn	asn	ser
ile	cys	cys	thr	lys	cys	his	lys	gly	thr	tyr	leu	tyr	asn
asp	cys	pro	gly	pro	gly	gln	asp	thr	asp	cys	arg	glu	cys
glu	ser	gly	ser	phe	thr	ala	ser	glu	asn	his	leu	arg	his
cys	leu	ser	cys	ser	lys	cys	arg	lys	glu	met	gly	gln	val
glu	ile	ser	ser	cys	thr	val	asp	arg	asp	thr	val	cys	gly
cys	arg	lys	asn	gln	tyr	arg	his	tyr	trp	ser	glu	asn	leu
phe	gln	cys	phe	asn	cys	ser	leu	cys	leu	asn	gly	thr	val
his	leu	ser	cys	gln	glu	lys	gln	asn	thr	val	cys	thr	cys
his	ala	gly	phe	phe	leu	arg	glu	asn	glu	cys	val	ser	cys
ser	asn	cys	lys	lys	ser	leu	glu	cys	thr	lys	leu	cys	leu
pro	gln	ile	glu	asn	val	lys	gly	thr	glu	asp	ser	gly	thr
thr	val	leu	leu	pro	leu	val	ile	phe	phe	gly	leu	cys	leu
leu	ser	leu	leu	phe	ile	gly	leu	met	tyr	arg	tyr	gln	arg
trp	lys	ser	lys	leu	tyr	ser	ile	val	cys	gly	lys	ser	thr
pro	glu	lys	glu	gly	glu	leu	glu	gly	thr	thr	thr	lys	pro
leu	ala	pro	asn	pro	ser	phe	ser	pro	thr	pro	gly	phe	thr
pro	thr	leu	gly	phe	ser	pro	val	pro	ser	ser	thr	phe	thr
ser	ser	ser	thr	tyr	thr	pro	gly	asp	cys	pro	asn	phe	ala
ala	pro	arg	arg	glu	val	ala	pro	pro	tyr	gln	gly	ala	asp
pro	ile	leu	ala	thr	ala	leu	ala	ser	asp	pro	ile	pro	asn
pro	leu	gln	lys	trp	glu	asp	ser	ala	his	lys	pro	gln	ser
leu	asp	thr	asp	asp	pro	ala	thr	leu	tyr	ala	val	val	glu
asn	val	pro	pro	leu	arg	trp	lys	glu	phe	val	arg	arg	leu
gly	leu	ser	asp	his	glu	ile	asp	arg	leu	glu	leu	gln	asn
gly	arg	cys	leu	arg	glu	ala	gln	tyr	ser	met	leu	ala	thr
trp	arg	arg	arg	thr	pro	arg	arg	glu	ala	thr	leu	glu	leu
leu	gly	arg	val	leu	arg	asp	met	asp	leu	leu	gly	cys	leu
glu	asp	ile	glu	glu	ala	leu	cys	gly	pro	ala	ala	leu	pro
pro	ala	pro	ser	leu	leu	arg;							

[, or a C- and/or N- terminally shortened sequence thereof]

I ~~3A~~ a polypeptide comprising the amino acid sequence of A, B, C, D, E, F, G, H or I with at least one conservative amino acid substitution;

I ~~KD~~ a polypeptide comprising the amino acid sequence of A, B, C, D, E, F, G, H or I with at least one amino acid substitution at a glycosylation site;

~~3~~ I ~~LK~~ a polypeptide comprising the amino acid sequence of A, B, C, D, E, F, G, H or I with at least one amino acid substitution at a proteolytic cleavage site; and

I ~~MB~~ a polypeptide comprising the amino acid sequence of A, B, C, D, E, F, G, H or I with at least one amino acid substitution at a cysteine residue.

~~3~~ 74. (Amended) An isolated DNA molecule [according to claim 87], wherein said DNA is selected from the group consisting of:

I A) a DNA<sup>molecule</sup> comprising the sequence:

CTG GTC CCT CAC CTA GGG GAC AGG GAG AAG AGA GAT AGT  
GTG TGT CCC CAA GGA AAA TAT ATC CAC CCT CAA AAT AAT  
TCG ATT TGC TGT ACC AAG TGC CAC AAA GGA ACC TAC TTG  
TAC AAT GAC TGT CCA GGC CCG GGG CAG GAT ACG GAC TGC  
AGG GAG TGT GAG AGC GGC TCC TTC ACC GCT TCA GAA AAC  
CAC CTC AGA CAC TGC CTC AGC TGC TCC AAA TGC CGA AAG  
GAA ATG GGT CAG GTG GAG ATC TCT TCT TGC ACA GTG GAC  
CGG GAC ACC GTG TGT GGC TGC AGG AAG AAC CAG TAC CGG  
CAT TAT TGG AGT GAA AAC CTT TTC CAG TGC TTC AAT TGC  
AGC CTC TGC CTC AAT GGG ACC GTG CAC CTC TCC TGC CAG  
GAG AAA CAG AAC ACC GTG TGC ACC TGC CAT GCA GGT TTC TTT  
CTA AGA GAA AAC GAG TGT GTC TCC TGT AGT AAC TGT  
AAG AAA AGC CTG GAG TGC ACG AAG TTG TGC CTA CCC CAG  
ATT GAG AAT

[, or a C- and/or N- terminally shortened sequence thereof];

I B) a DNA<sup>molecule</sup> comprising the sequence:

CTG GTC CCT CAC CTA GGG GAC AGG GAG AAG AGA GAT AGT  
GTG TGT CCC CAA GGA AAA TAT ATC CAC CCT CAA AAT AAT  
TCG ATT TGC TGT ACC AAG TGC CAC AAA GGA ACC TAC TTG  
TAC AAT GAC TGT CCA GGC CCG GGG CAG GAT ACG GAC TGC  
AGG GAG TGT GAG AGC GGC TCC TTC ACC GCT TCA GAA AAC  
CAC CTC AGA CAC TGC CTC AGC TGC TCC AAA TGC CGA AAG



GAA ATG GGT CAG GTG GAG ATC TCT TCT TGC ACA GTG GAC  
 CGG GAC ACC GTG TGT GGC TGC AGG AAG AAC CAG TAC CGG  
 CAT TAT TGG AGT GAA AAC CTT TTC CAG TGC TTC AAT TGC  
 AGC CTC TGC CTC AAT GGG ACC GTG CAC CTC TCC TGC CAG  
 GAG AAA CAG AAC ACC GTG TGC ACC TGC CAT GCA GGT TTC TTT  
 CTA AGA GAA AAC GAG TGT GTC TCC TGT AGT AAC TGT AAG  
 AAA AGC CTG GAG TGC ACG AAG TTG TGC CTA CCC CAG ATT  
 GAG AAT GTT AAG GGC ACT GAG GAC TCA GGC ACC ACA

[, or a C- and/or N- terminally shortened sequence thereof];

C) a DNA<sup>molecule</sup> comprising the sequence:

GAT AGT GTG TGT CCC CAA GGA AAA TAT ATC CAC CCT CAA  
 AAT AAT TCG ATT TGC TGT ACC AAG TGC CAC AAA GGA ACC  
 TAC TTG TAC AAT GAC TGT CCA GGC CCG GGG CAG GAT ACG  
 GAC TGC AGG GAG TGT GAG AGC GGC TCC TTC ACC GCT TCA  
 GAA AAC CAC CTC AGA CAC TGC CTC AGC TGC TCC AAA TGC  
 CGA AAG GAA ATG GGT CAG GTG GAG ATC TCT TCT TGC ACA  
 GTG GAC CGG GAC ACC GTG TGT GGC TGC AGG AAG AAC CAG  
 TAC CGG CAT TAT TGG AGT GAA AAC CTT TTC CAG TGC TTC  
 AAT TGC AGC CTC TGC CTC AAT GGG ACC GTG CAC CTC TCC  
 TGC CAG GAG AAA CAG AAC ACC GTG TGC ACC TGC CAT GCA  
 GGT TTC TTT CTA AGA GAA AAC GAG TGT GTC TCC TGT AGT  
 AAC TGT AAG AAA AGC CTG GAG TGC ACG AAG TTG TGC CTA  
 CCC CAG ATT GAG AAT

[, or a C- and/or N- terminally shortened sequence thereof]; and

a DNA molecule

D) ~~DNA~~ comprising the sequence:

GAT AGT GTG TGT CCC CAA GGA AAA TAT ATC CAC CCT CAA  
 AAT AAT TCG ATT TGC TGT ACC AAG TGC CAC AAA GGA ACC  
 TAC TTG TAC AAT GAC TGT CCA GGC CCG GGG CAG GAT ACG  
 GAC TGC AGG GAG TGT GAG AGC GGC TCC TTC ACC GCT TCA  
 GAA AAC CAC CTC AGA CAC TGC CTC AGC TGC TCC AAA TGC  
 CGA AAG GAA ATG GGT CAG GTG GAG ATC TCT TCT TGC ACA  
 GTG GAC CGG GAC ACC GTG TGT GGC TGC AGG AAG AAC CAG  
 TAC CGG CAT TAT TGG AGT GAA AAC CTT TTC CAG TGC TTC  
 AAT TGC AGC CTC TGC CTC AAT GGG ACC GTG CAC CTC TCC  
 TGC CAG GAG AAA CAG AAC ACC GTG TGC ACC TGC CAT GCA  
 GGT TTC TTT CTA AGA GAA AAC GAG TGT GTC TCC TGT AGT  
 AAC TGT AAG AAA AGC CTG GAG TGC ACG AAG TTG TGC CTA  
 CCC CAG ATT GAG AAT GTT AAG GGC ACT GAG GAC TCA GGC  
 ACC ACA;

[, or a C- and/or N- terminally shortened sequence thereof]

- I E) <sup>molecule comprising the</sup> a DNA ~~sequence~~ of A, B, C or D encoding at least one conservative amino acid substitution;
- I F) <sup>molecule comprising the</sup> a DNA ~~sequence~~ of A, B, C or D encoding at least one amino acid substitution at a glycosylation site;
- I G) <sup>molecule comprising the</sup> a DNA ~~sequence~~ of A, B, C or D encoding at least one amino acid substitution at a proteolytic cleavage site; and
- I H) <sup>molecule comprising the</sup> a DNA ~~sequence~~ of A, B, C or D encoding at least one amino acid substitution at a cysteine residue.

I <sup>An isolated DNA molecule</sup> ~~75.~~ (Amended) ~~DNA~~ coding for a polypeptide having the ability to bind to TNF, wherein said DNA coding said polypeptide is selected from the group consisting of:

I A) <sup>a DNA molecule</sup> ~~DNA~~ comprising the sequence:

ATG CTG GTC CCT CAC CTA GGG GAC AGG GAG AAG AGA GAT  
 AGT GTG TGT CCC CAA GGA AAA TAT ATC CAC CCT CAA AAT  
 AAT TCG ATT TGC TGT ACC AAG TGC CAC AAA GGA ACC TAC  
 TTG TAC AAT GAC TGT CCA GGC CCG GGG CAG GAT ACG GAC  
 TGC AGG GAG TGT GAG AGC GGC TCC TTC ACC GCT TCA GAA  
 AAC CAC CTC AGA CAC TGC CTC AGC TGC TCC AAA TGC CGA  
 AAG GAA ATG GGT CAG GTG GAG ATC TCT TCT TGC ACA GTG  
 GAC CGG GAC ACC GTG TGT GGC TGC AGG AAG AAC CAG TAC  
 CGG CAT TAT TGG AGT GAA AAC CTT TTC CAG TGC TTC AAT  
 TGC AGC CTC TGC CTC AAT GGG ACC GTG CAC CTC TCC TGC  
 CAG GAG AAA CAG AAC ACC GTG TGC ACC TGC CAT GCA GGT  
 TTC TTT CTA AGA GAA AAC GAG TGT GTC TCC TGT AGT AAC  
 TGT AAG AAA AGC CTG GAG TGC ACG AAG TTG TGC CTA CCC  
 CAG ATT GAG AAT

[, or a C- and/or N- terminally shortened sequence thereof];

I B) <sup>a DNA molecule</sup> ~~DNA~~ comprising the sequence:

ATG CTG GTC CCT CAC CTA GGG GAC AGG GAG AAG AGA GAT  
 AGT GTG TGT CCC CAA GGA AAA TAT ATC CAC CCT CAA AAT  
 AAT TCG ATT TGC TGT ACC AAG TGC CAC AAA GGA ACC TAC  
 TTG TAC AAT GAC TGT CCA GGC CCG GGG CAG GAT ACG GAC  
 TGC AGG GAG TGT GAG AGC GGC TCC TTC ACC GCT TCA GAA

AAC CAC CTC AGA CAC TGC CTC AGC TGC TCC AAA TGC CGA  
 AAG GAA ATG GGT CAG GTG GAG ATC TCT TCT TGC ACA GTG  
 GAC CGG GAC ACC GTG TGT GGC TGC AGG AAG AAC CAG TAC  
 CGG CAT TAT TGG AGT GAA AAC CTT TTC CAG TGC TTC AAT  
 TGC AGC CTC TGC CTC AAT GGG ACC GTG CAC CTC TCC TGC  
 CAG GAG AAA CAG AAC ACC GTG TGC ACC TGC CAT GCA GGT  
 TTC TTT CTA AGA GAA AAC GAG TGT GTC TCC TGT AGT AAC  
 TGT AAG AAA AGC CTG GAG TGC ACG AAG TTG TGC CTA CCC  
 CAG ATT GAG AAT GTT AAG GGC ACT GAG GAC TCA GGC ACC  
 ACA

[, or a C- and/or N- terminally shortened sequence thereof];

*a DNA molecule*

C) ~~DNA~~ comprising the sequence:

ATG GAT AGT GTG TGT CCC CAA GGA AAA TAT ATC CAC CCT  
 CAA AAT AAT TCG ATT TGC TGT ACC AAG TGC CAC AAA GGA  
 ACC TAC TTG TAC AAT GAC TGT CCA GGC CCG GGG CAG GAT  
 ACG GAC TGC AGG GAG TGT GAG AGC GGC TCC TTC ACC GCT  
 TCA GAA AAC CAC CTC AGA CAC TGC CTC AGC TGC TCC AAA  
 TGC CGA AAG GAA ATG GGT CAG GTG GAG ATC TCT TCT TGC  
 ACA GTG GAC CGG GAC ACC GTG TGT GGC TGC AGG AAG AAC  
 CAG TAC CGG CAT TAT TGG AGT GAA AAC CTT TTC CAG TGC  
 TTC AAT TGC AGC CTC TGC CTC AAT GGG ACC GTG CAC CTC  
 TCC TGC CAG GAG AAA CAG AAC ACC GTG TGC ACC TGC CAT  
 GCA GGT TTC TTT CTA AGA GAA AAC GAG TGT GTC TCC TGT  
 AGT AAC TGT AAG AAA AGC CTG GAG TGC ACG AAG TTG TGC  
 CTA CCC CAG ATT GAG AAT

[, or a C- and/or N- terminally shortened sequence thereof];

*a DNA molecule*

D) ~~DNA~~ comprising the sequence:

ATG GAT AGT GTG TGT CCC CAA GGA AAA TAT ATC CAC CCT  
 CAA AAT AAT TCG ATT TGC TGT ACC AAG TGC CAC AAA GGA  
 ACC TAC TTG TAC AAT GAC TGT CCA GGC CCG GGG CAG GAT  
 ACG GAC TGC AGG GAG TGT GAG AGC GGC TCC TTC ACC GCT  
 TCA GAA AAC CAC CTC AGA CAC TGC CTC AGC TGC TCC AAA  
 TGC CGA AAG GAA ATG GGT CAG GTG GAG ATC TCT TCT TGC  
 ACA GTG GAC CGG GAC ACC GTG TGT GGC TGC AGG AAG AAC  
 CAG TAC CGG CAT TAT TGG AGT GAA AAC CTT TTC CAG TGC  
 TTC AAT TGC AGC CTC TGC CTC AAT GGG ACC GTG CAC CTC  
 TCC TGC CAG GAG AAA CAG AAC ACC GTG TGC ACC TGC CAT  
 GCA GGT TTC TTT CTA AGA GAA AAC GAG TGT GTC TCC TGT

AGT AAC TGT AAG AAA AGC CTG GAG TGC ACG AAG TTG TGC  
CTA CCC CAG ATT GAG AAT GTT AAG GGC ACT GAG GAC TCA  
GGC ACC ACA

[, or a C- and/or N- terminally shortened sequence thereof];

E) <sup>a DNA molecule</sup>  
DNA comprising the sequence:

ATG GGC CTC TCC ACC GTG CCT GAC CTG CTG CTG CCA  
CTG GTG CTC CTG GAG CTG TTG GTG GGA ATA TAC CCC  
TCA GGG GTT ATT GGA CTG GTC CCT CAC CTA GGG GAC  
AGG GAG AAG AGA GAT AGT GTG TGT CCC CAA GGA AAA  
TAT ATC CAC CCT CAA AAT AAT TCG ATT TGC TGT ACC  
AAG TGC CAC AAA GGA ACC TAC TTG TAC AAT GAC TGT  
CCA GGC CCG GGG CAG GAT ACG GAC TGC AGG GAG TGT  
GAG AGC GGC TCC TTC ACC GCT TCA GAA AAC CAC CTC  
AGA CAC TGC CTC AGC TGC TCC AAA TGC CGA AAG GAA  
ATG GGT CAG GTG GAG ATC TCT TCT TGC ACA GTG GAC  
CGG GAC ACC GTG TGT GGC TGC AGG AAG AAC CAG TAC  
CGG CAT TAT TGG AGT GAA AAC CTT TTC CAG TGC TTC  
AAT TGC AGC CTC TGC CTC AAT GGG ACC GTG CAC CTC  
TCC TGC CAG GAG AAA CAG AAC ACC GTG TGC ACC TGC  
CAT GCA GGT TTC TTT CTA AGA GAA AAC GAG TGT GTC  
TCC TGT AGT AAC TGT AAG AAA AGC CTG GAG TGC ACG  
AAG TTG TGC CTA CCC CAG ATT GAG AAT

[, or a C- and/or N- terminally shortened sequence thereof];

F) <sup>a DNA molecule</sup>  
DNA comprising the sequence:

ATG GGC CTC TCC ACC GTG CCT GAC CTG CTG CTG CCA CTG  
GTG CTC CTG GAG CTG TTG GTG GGA ATA TAC CCC TCA GGG  
GTT ATT GGA CTG GTC CCT CAC CTA GGG GAC AGG GAG AAG  
AGA GAT AGT GTG TGT CCC CAA GGA AAA TAT ATC CAC CCT  
CAA AAT AAT TCG ATT TGC TGT ACC AAG TGC CAC AAA GGA  
ACC TAC TTG TAC AAT GAC TGT CCA GGC CCG GGG CAG GAT  
ACG GAC TGC AGG GAG TGT GAG AGC GGC TCC TTC ACC GCT  
TCA GAA AAC CAC CTC AGA CAC TGC CTC AGC TGC TCC AAA  
TGC CGA AAG GAA ATG GGT CAG GTG GAG ATC TCT TCT TGC  
ACA GTG GAC CGG GAC ACC GTG TGT GGC TGC AGG AAG AAC  
CAG TAC CGG CAT TAT TGG AGT GAA AAC CTT TTC CAG TGC  
TTC AAT TGC AGC CTC TGC CTC AAT GGG ACC GTG CAC CTC  
TCC TGC CAG GAG AAA CAG AAC ACC GTG TGC ACC TGC CAT  
GCA GGT TTC TTT CTA AGA GAA AAC GAG TGT GTC TCC TGT  
AGT AAC TGT AAG AAA AGC CTG GAG TGC ACG AAG TTG TGC

CTA CCC CAG ATT GAG AAT GTT AAG GGC ACT GAG GAC TCA  
GGC ACC ACA

[, or a C- and/or N- terminally shortened sequence thereof];

*a DNA molecule*

G) *I* ~~DNA~~ comprising the sequence:

*7990x*

ATG	GGC	CTC	TCC	ACC	GTG	CCT	GAC	CTG	CTG	CTG	CCA
CTG	GTG	CTC	CTG	GAG	CTG	TTG	GTG	GGA	ATA	TAC	CCC
TCA	GGG	GTT	ATT	GGA	GAT	AGT	GTG	TGT	CCC	CAA	GGA
AAA	TAT	ATC	CAC	CCT	CAA	AAT	AAT	TCG	ATT	TGC	TGT
ACC	AAG	TGC	CAC	AAA	GGA	ACC	TAC	TTG	TAC	AAT	GAC
TGT	CCA	GGC	CCG	GGG	CAG	GAT	ACG	GAC	TGC	AGG	GAG
TGT	GAG	AGC	GGC	TCC	TTC	ACC	GCT	TCA	GAA	AAC	CAC
CTC	AGA	CAC	TGC	CTC	AGC	TGC	TCC	AAA	TGC	CGA	AAG
GAA	ATG	GGT	CAG	GTG	GAG	ATC	TCT	TCT	TGC	ACA	GTG
GAC	CGG	GAC	ACC	GTG	TGT	GGC	TGC	AGG	AAG	AAC	CAG
TAC	CGG	CAT	TAT	TGG	AGT	GAA	AAC	CTT	TTC	CAG	TGC
TTC	AAT	TGC	AGC	CTC	TGC	CTC	AAT	GGG	ACC	GTG	CAC
CTC	TCC	TGC	CAG	GAG	AAA	CAG	AAC	ACC	GTG	TGC	ACC
TGC	CAT	GCA	GGT	TTC	TTT	CTA	AGA	GAA	AAC	GAG	TGT
GTC	TCC	TGT	AGT	AAC	TGT	AAG	AAA	AGC	CTG	GAG	TGC
ACG	AAG	TTG	TGC	CTA	CCC	CAG	ATT	GAG	AAT		

[, or a C- and/or N- terminally shortened sequence thereof];

*a DNA molecule*

H) *I* ~~DNA~~ comprising the sequence:

*7991x*

ATG	GGC	CTC	TCC	ACC	GTG	CCT	GAC	CTG	CTG	CTG	CCA	CTG
GTG	CTC	CTG	GAG	CTG	TTG	GTG	GGA	ATA	TAC	CCC	TCA	GGG
GTT	ATT	GGA	GAT	AGT	GTG	TGT	CCC	CAA	GGA	AAA	TAT	ATC
CAC	CCT	CAA	AAT	AAT	TCG	ATT	TGC	TGT	ACC	AAG	TGC	CAC
AAA	GGA	ACC	TAC	TTG	TAC	AAT	GAC	TGT	CCA	GGC	CCG	GGG
CAG	GAT	ACG	GAC	TGC	AGG	GAG	TGT	GAG	AGC	GGC	TCC	TTC
ACC	GCT	TCA	GAA	AAC	CAC	CTC	AGA	CAC	TGC	CTC	AGC	TGC
TCC	AAA	TGC	CGA	AAG	GAA	ATG	GGT	CAG	GTG	GAG	ATC	TCT
TCT	TGC	ACA	GTG	GAC	CGG	GAC	ACC	GTG	TGT	GGC	TGC	AGG
AAG	AAC	CAG	TAC	CGG	CAT	TAT	TGG	AGT	GAA	AAC	CTT	TTC
CAG	TGC	TTC	AAT	TGC	AGC	CTC	TGC	CTC	AAT	GGG	ACC	GTG
CAC	CTC	TCC	TGC	CAG	GAG	AAA	CAG	AAC	ACC	GTG	TGC	ACC
TGC	CAT	GCA	GGT	TTC	TTT	CTA	AGA	GAA	AAC	GAG	TGT	GTC
TCC	TGT	AGT	AAC	TGT	AAG	AAA	AGC	CTG	GAG	TGC	ACG	AAG
TTG	TGC	CTA	CCC	CAG	ATT	GAG	AAT	GTT	AAG	GGC	ACT	GAG
GAC	TCA	GGC	ACC	ACA								

I [ , or a C- and/or N- terminally shortened sequence thereof]; and

a DNA molecule

I D) ~~A~~ DNA comprising the sequence:

ATG GGC CTC TCC ACC GTG CCT GAC CTG CTG CTG CCA CTG  
GTG CTC CTG GAG CTG TTG GTG GGA ATA TAC CCC TCA GGG  
GTT ATT GGA CTG GTC CCT CAC CTA GGG GAC AGG GAG AAG  
AGA GAT AGT GTG TGT CCC CAA GGA AAA TAT ATC CAC CCT  
CAA AAT AAT TCG ATT TGC TGT ACC AAG TGC CAC AAA GGA  
ACC TAC TTG TAC AAT GAC TGT CCA GGC CCG GGG CAG GAT  
ACG GAC TGC AGG GAG TGT GAG AGC GGC TCC TTC ACC GCT  
TCA GAA AAC CAC CTC AGA CAC TGC CTC AGC TGC TCC AAA  
TGC CGA AAG GAA ATG GGT CAG GTG GAG ATC TCT TCT TGC  
ACA GTG GAC CGG GAC ACC GTG TGT GGC TGC AGG AAG AAC  
CAG TAC CGG CAT TAT TGG AGT GAA AAC CTT TTC CAG TGC  
TTC AAT TGC AGC CTC TGC CTC AAT GGG ACC GTG CAC CTC  
TCC TGC CAG GAG AAA CAG AAC ACC GTG TGC ACC TGC CAT  
GCA GGT TTC TTT CTA AGA GAA AAC GAG TGT GTC TCC TGT  
AGT AAC TGT AAG AAA AGC CTG GAG TGC ACG AAG TTG TGC  
CTA CCC CAG ATT GAG AAT GTT AAG GGC ACT GAG GAC TCA  
GGC ACC ACA GTG CTG TTG CCC CTG GTC ATT TTC TTT GGT  
CTT TGC CTT TTA TCC CTC CTC TTC ATT GGT TTA ATG TAT  
CGC TAC CAA CGG TGG AAG TCC AAG CTC TAC TCC ATT GTT  
TGT GGG AAA TCG ACA CCT GAA AAA GAG GGG GAG CTT GAA  
GGA ACT ACT ACT AAG CCC CTG GCC CCA AAC CCA AGC TTC  
AGT CCC ACT CCA GGC TTC ACC CCC ACC CTG GGC TTC AGT  
CCC GTG CCC AGT TCC ACC TTC ACC TCC AGC TCC ACC TAT  
ACC CCC GGT GAC TGT CCC AAC TTT GCG GCT CCC CGC AGA  
GAG GTG GCA CCA CCC TAT CAG GGG GCT GAC CCC ATC CTT  
GCG ACA GCC CTC GCC TCC GAC CCC ATC CCC AAC CCC CTT  
CAG AAG TGG GAG GAC AGC GCC CAC AAG CCA CAG AGC CTA  
GAC ACT GAT GAC CCC GCG ACG CTG TAC GCC GTG GTG GAG  
AAC GTG CCC CCG TTG CGC TGG AAG GAA TTC GTG CGG CGC  
CTA GGG CTG AGC GAC CAC GAG ATC GAT CGG CTG GAG CTG  
CAG AAC GGG CGC TGC CTG CGC GAG GCG CAA TAC AGC ATG  
CTG GCG ACC TGG AGG CGG CGC ACG CCG CGG CGC GAG GCC  
ACG CTG GAG CTG CTG GGA CGC GTG CTC CGC GAC ATG GAC  
CTG CTG GGC TGC CTG GAG GAC ATC GAG GAG GCG CTT TGC  
GGC CCC GCC GCC CTC CCG CCC GCG CCC AGT CTT CTC AGA;

[ , or a C- and/or N- terminally shortened sequence thereof]

D) a DNA sequence of A, B, C, D, E, F, G, H or I encoding at least one conservative amino acid substitution;

*molecule comprising the*  
I K) a DNA sequence of A, B, C, D, E, F, G, H or I encoding at least one amino acid substitution at a glycosylation site;

*molecule comprising the*  
I L) a DNA sequence of A, B, C, D, E, F, G, H or I encoding at least one amino acid substitution at a proteolytic cleavage site; and

*molecule comprising the*  
I M) a DNA sequence of A, B, C, D, E, F, G, H or I encoding at least one amino acid substitution at a cysteine residue.

*recombinant*  
I 16. (Amended) A recombinant host cell containing a DNA molecule comprising a DNA coding for a polypeptide having the ability to bind TNF selected from the group consisting of:

A) a polypeptide comprising the amino acid sequence:

met gly leu ser thr val pro asp leu leu leu pro leu val  
leu leu glu leu leu val gly ile tyr pro ser gly val ile  
gly leu val pro his leu gly asp arg glu lys arg asp ser  
val cys pro gln gly lys tyr ile his pro gln asn asn ser  
ile cys cys thr lys cys his lys gly thr tyr leu tyr asn  
asp cys pro gly pro gly gln asp thr asp cys arg glu cys  
glu ser gly ser phe thr ala ser glu asn his leu arg his  
cys leu ser cys ser lys cys arg lys glu met gly gln val  
glu ile ser ser cys thr val asp arg asp thr val cys gly  
cys arg lys asn gln tyr arg his tyr trp ser glu asn leu  
phe gln cys phe asn cys ser leu cys leu asn gly thr val  
his leu ser cys gln glu lys gln asn thr val cys thr cys  
his ala gly phe phe leu arg glu asn glu cys val ser cys  
ser asn cys lys lys ser leu glu cys thr lys leu cys leu  
pro gln ile glu asn val lys gly thr glu asp ser gly thr  
thr val leu leu pro leu val ile phe phe gly leu cys leu  
leu ser leu leu phe ile gly leu met tyr arg tyr gln arg  
trp lys ser lys leu tyr ser ile val cys gly lys ser thr  
pro glu lys glu gly glu leu glu gly thr thr thr lys pro  
leu ala pro asn pro ser phe ser pro thr pro gly phe thr  
pro thr leu gly phe ser pro val pro ser ser thr phe thr  
ser ser ser thr tyr thr pro gly asp cys pro asn phe ala  
ala pro arg arg glu val ala pro pro tyr gln gly ala asp  
pro ile leu ala thr ala leu ala ser asp pro ile pro asn  
pro leu gln lys trp glu asp ser ala his lys pro gln ser  
leu asp thr asp asp pro ala thr leu tyr ala val val glu  
asn val pro pro leu arg trp lys glu phe val arg arg leu  
gly leu ser asp his glu ile asp arg leu glu leu gln asn

gly	arg	cys	leu	arg	glu	ala	gln	tyr	ser	met	leu	ala	thr
trp	arg	arg	arg	thr	pro	arg	arg	glu	ala	thr	leu	glu	leu
leu	gly	arg	val	leu	arg	asp	met	asp	leu	leu	gly	cys	leu
glu	asp	ile	glu	glu	ala	leu	cys	gly	pro	ala	ala	leu	pro
pro	ala	pro	ser	leu	leu	arg;							

B) a polypeptide comprising the amino acid sequence:

asp	ser	val	cys	pro	gln	gly	lys	tyr	ile	his	pro	gln	asn
asn	ser	ile	cys	cys	thr	lys	cys	his	lys	gly	thr	tyr	leu
tyr	asn	asp	cys	pro	gly	pro	gly	gln	asp	thr	asp	cys	arg
glu	cys	glu	ser	gly	ser	phe	thr	ala	ser	glu	asn	his	leu
arg	his	cys	leu	ser	cys	ser	lys	cys	arg	lys	glu	met	gly
gln	val	glu	ile	ser	ser	cys	thr	val	asp	arg	asp	thr	val
cys	gly	cys	arg	lys	asn	gln	tyr	arg	his	tyr	trp	ser	glu
asn	leu	phe	gln	cys	phe	asn	cys	ser	leu	cys	leu	asn	gly
thr	val	his	leu	ser	cys	gln	glu	lys	gln	asn	thr	val	cys
thr	cys	his	ala	gly	phe	phe	leu	arg	glu	asn	glu	cys	val
ser	cys	ser	asn	cys	lys	lys	ser	leu	glu	cys	thr	lys	leu
cys	leu	pro	gln	ile	glu	asn							

asn [; and

C) a fragment of A or B]

C) a polypeptide comprising the amino acid sequence of A, B, C or D with at least one conservative amino acid substitution;

D) a polypeptide comprising the amino acid sequence of A, B, C or D with at least one amino acid substitution at a glycosylation site;

E) a polypeptide comprising the amino acid sequence of A, B, C or D with at least one amino acid substitution at a proteolytic cleavage site; and

F) a polypeptide comprising the amino acid sequence of A, B, C or D with at least one amino acid substitution at a cysteine residue.

85. (Amended) A process according to claim 78, wherein the DNA molecule comprises promoter DNA, other than the promoter DNA for the native polypeptide having TNF inhibitory activity, operatively linked to the nucleic acid encoding the [TNF inhibitor] native polypeptide having TNF inhibitory activity.

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Insert new claims 87-133 as follows:

87. An isolated DNA molecule wherein said DNA comprises a sequence selected from the group consisting of:

A)

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R<sup>2</sup> GAT AGT GTG TGT CCC CAA GGA AAA TAT ATC CAC CCT  
CAA AAT AAT TCG ATT TGC TGT ACC AAG TGC CAC AAA GGA  
ACC TAC TTG TAC AAT GAC TGT CCA GGC CCG GGG CAG GAT  
ACG GAC TGC AGG GAG TGT GAG AGC GGC TCC TTC ACC GCT  
TCA GAA AAC CAC CTC AGA CAC TGC CTC AGC TGC TCC AAA  
TGC CGA AAG GAA ATG GGT CAG GTG GAG ATC TCT TCT TGC  
ACA GTG GAC CGG GAC ACC GTG TGT GGC TGC AGG AAG AAC  
CAG TAC CGG CAT TAT TGG AGT GAA AAC CTT TTC CAG TGC  
TTC AAT TGC AGC CTC TGC CTC AAT GGG ACC GTG CAC CTC  
TCC TGC CAG GAG AAA CAG AAC ACC GTG TGC ACC TGC CAT  
GCA GGT TTC TTT CTA AGA GAA AAC GAG TGT GTC TCC TGT  
AGT AAC TGT AAG AAA AGC CTG GAG TGC ACG AAG TTG TGC  
CTA CCC CAG ATT GAG AAT

wherein R<sup>2</sup> is absent or is a DNA comprising a sequence coding for a polypeptide which can be cleaved *in vivo*;

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B) a fragment or degenerate variant of the polypeptide of A;

C) a polypeptide comprising the amino acid sequence of A or B with at least one conservative amino acid substitution;

D) a polypeptide comprising the amino acid sequence of A or B with at least one amino acid substitution at a glycosylation site;

E) a polypeptide comprising the amino acid sequence of A or B with at least one amino acid substitution at a proteolytic cleavage site; and

F) a polypeptide comprising the amino acid sequence of A or B with at least one amino acid substitution at a cysteine residue.

88. An isolated DNA molecule according to claim 87, wherein R<sup>2</sup> is a DNA molecule comprising a sequence which codes entirely or partly for a signal sequence.

I <sup>18/8</sup>~~89~~. An isolated DNA molecule according to claim <sup>11/6</sup>~~87~~, wherein R<sup>2</sup> is a DNA <sup>molecule</sup> comprising the sequence CTG GTC CCT CAC CTA GGG GAC AGG GAG AAG AGA or a fragment thereof.

I <sup>9/9</sup>~~90~~. An isolated DNA molecule according to claim <sup>11/7</sup>~~88~~, wherein R<sup>2</sup> is a DNA <sup>molecule</sup> comprising the sequence R<sup>3</sup> CTG GTC CCT CAC CTA GGG GAC AGG GAG AAG AGA, wherein R<sup>3</sup> is a DNA <sup>molecule</sup> coding for a signal peptide, or a fragment thereof.

J I <sup>20</sup>~~91~~. An isolated DNA molecule according to claim <sup>11/9</sup>~~90~~, wherein R<sup>3</sup> is a DNA <sup>molecule</sup> comprising the sequence:

ATG GGC CTC TCC ACC GTG CCT GAC CTG CTG CTG CCA CTG  
GTG CTC CTG GAG CTG TTG GTG GGA ATA TAC CCC TCA GGG  
GTT ATT GGA, or a fragment thereof.

<sup>21</sup>~~92~~. A nucleic acid which hybridizes with DNA complementary to the DNA defined in claim <sup>11/6</sup>~~87~~ under conditions of low stringency such that the nucleic acid is useful as a hybridization probe to detect DNA encoding the polypeptide of A or B.

I <sup>22</sup>~~93~~. ~~A recombinant~~ <sup>An isolated</sup> DNA molecule, which is replicable in prokaryotic or eukaryotic host organisms, wherein said DNA molecule contains expression control sequences functionally

I linked to the DNA <sup>molecule</sup> ~~sequence~~ defined in claim <sup>11/6</sup>~~87~~, or a degenerate variant or a fragment thereof.

55  
94. A process for preparing a recombinant TNF receptor protein, comprising  
42 42 43 41  
cultivating the host cell of claim 114 and isolating the expressed protein.

23  
95. An isolated DNA molecule coding for a polypeptide selected from the group  
consisting of:

A) a polypeptide comprising the amino acid sequence:

met gly leu ser thr val pro asp leu leu leu pro  
leu val leu leu glu leu leu val gly ile tyr pro  
ser gly val ile gly leu val pro his leu gly asp  
arg glu lys arg asp ser val cys pro gln gly lys  
tyr ile his pro gln asn asn ser ile cys cys thr  
lys cys his lys gly thr tyr leu tyr asn asp cys  
pro gly pro gly gln asp thr asp cys arg glu cys  
glu ser gly ser phe thr ala ser glu asn his leu  
arg his cys leu ser cys ser lys cys arg lys glu  
met gly gln val glu ile ser ser cys thr val asp  
arg asp thr val cys gly cys arg lys asn gln tyr  
arg his tyr trp ser glu asn leu phe gln cys phe  
asn cys ser leu cys leu asn gly thr val his leu  
ser cys gln glu lys gln asn thr val cys thr cys  
his ala gly phe phe leu arg glu asn glu cys val  
ser cys ser asn cys lys lys ser leu glu cys thr  
lys leu cys leu pro gln ile glu asn val lys gly  
thr glu asp ser gly thr thr val leu leu pro leu  
val ile phe phe gly leu met tyr arg tyr gln arg trp lys  
phe ile gly leu tyr ser ile val cys gly lys ser thr  
ser lys leu glu gly glu leu glu gly thr thr thr  
pro glu lys glu pro ala pro asp pro ser phe ser pro thr  
lys pro leu ala thr pro thr leu gly phe ser pro val  
pro ser ser thr phe thr ser ser ser thr tyr thr  
pro gly asp cys pro pro asn phe ala pro arg arg  
glu val ala pro pro tyr gln gly ala asp pro ile  
leu ala thr ala leu ala ser asp pro ile pro asn  
pro leu gln lys trp glu asp ser ala his lys pro  
gln ser leu asp thr asp asp pro ala thr leu tyr  
ala val val glu asn val pro pro leu arg trp lys  
glu phe val arg arg leu gly leu ser asp his glu  
ile asp arg leu glu leu leu asn gly arg cys leu

arg	glu	ala	gln	tyr	ser	met	leu	ala	thr	trp	arg
arg	arg	thr	pro	arg	arg	glu	ala	thr	leu	glu	leu
leu	gly	arg	val	leu	arg	asp	met	asp	leu	leu	gly
cys	leu	glu	asp	ile	glu	glu	ala	leu	cys	gly	pro
ala	ala	leu	pro	pro	ala	pro	ser	leu	leu	arg;	

B) a polypeptide comprising the amino acid sequence:

asp	ser	val	cys	pro	gln	gly	lys	tyr	ile	his	pro
gln	asn	asn	ser	ile	cys	cys	thr	lys	cys	his	lys
gly	thr	tyr	leu	tyr	asn	asp	cys	pro	gly	pro	gly
gln	asp	thr	asp	cys	arg	glu	cys	glu	ser	gly	ser
phe	thr	ala	ser	glu	asn	his	leu	arg	his	cys	leu
ser	cys	ser	lys	cys	arg	lys	glu	met	gly	gln	val
glu	ile	ser	ser	cys	thr	val	asp	arg	asp	thr	val
cys	gly	cys	arg	lys	asn	gln	tyr	arg	his	tyr	trp
ser	glu	asn	leu	phe	gln	cys	phe	asn	cys	ser	leu
cys	leu	asn	gly	thr	val	his	leu	ser	cys	gln	glu
lys	gln	asn	thr	val	cys	thr	cys	his	ala	gly	phe
phe	leu	arg	glu	asn	glu	cys	val	ser	cys	ser	asn
cys	lys	lys	ser	leu	glu	cys	thr	lys	leu	cys	leu
pro	gln	ile	glu	asn;	[and]						

C) a fragment of A or B complementary to the DNA encoding the polypeptide of A

or B and is useful as a hybridization probe to detect the DNA encoding the polypeptide of A or

B;

D) a polypeptide comprising the amino acid sequence of A, B or C with at least one conservative amino acid substitution;

E) a polypeptide comprising the amino acid sequence of A, B or C with at least one amino acid substitution at a glycosylation site;

F) a polypeptide comprising the amino acid sequence of A, B or C with at least one amino acid substitution at a proteolytic cleavage site; and

G) a polypeptide comprising the amino acid sequence of A, B or C with at least one amino acid substitution at a cysteine residue.

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124  
96. A DNA according to claim 23, wherein said polypeptide is selected from the group consisting of:

A) a polypeptide comprising the amino acid sequence:

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~~98~~<sup>24</sup> A DNA according to claim ~~97~~<sup>25</sup>, wherein said polypeptide includes at least one additional amino acid at the amino-terminus and at the carboxyl-terminus.

~~99~~<sup>27</sup> A DNA according to claim ~~97~~<sup>25</sup>, wherein said polypeptide includes at least one additional amino acid at the amino-terminus.

~~100~~<sup>28</sup> A DNA according to claim ~~99~~<sup>27</sup>, wherein said polypeptide includes a methionine at the amino-terminus.

~~101~~<sup>29</sup> A DNA according to claim ~~100~~<sup>25, 28</sup>, wherein said polypeptide includes at least one additional amino acid at the carboxyl-terminus.

~~102~~<sup>30</sup> A nucleic acid that hybridizes to a DNA complementary to the DNA defined in claim ~~96~~<sup>24</sup> under conditions of low stringency such that the nucleic acid is useful as a hybridization probe to detect DNA encoding the polypeptide of A or B.

~~103~~<sup>31</sup> A vector comprising a DNA ~~sequence~~<sup>of claims 1, 2, 3, 4, 16, 23, 25, 26, 27, 28, 29 or 30</sup> coding for a TNF binding protein which binds TNF.

~~104~~<sup>32</sup> A vector comprising a DNA ~~sequence~~<sup>molecule</sup> defined in claim ~~96~~<sup>24</sup>.

~~33~~  
105. A vector according to claim ~~104~~<sup>32</sup>, which is replicable in a prokaryotic ~~and~~ or a eukaryotic host cell.

~~34~~  
106. A vector according to claim ~~105~~<sup>33</sup>, which is replicable in a prokaryotic cell.

~~35~~  
107. A vector according to claim ~~106~~<sup>34</sup>, wherein said DNA ~~sequence~~<sup>molecule</sup> encodes ATG at the amino terminus of the peptide.

~~36~~  
108. A vector according to claim ~~106~~<sup>34</sup>, which is replicable in *Escherichia coli*.

~~37~~  
109. A vector according to claim ~~105~~<sup>33</sup>, which is replicable in a eukaryotic cell.

~~38~~  
110. A vector according to claim ~~109~~<sup>37</sup>, which is replicable in a mammalian cell.

~~39~~  
111. A vector according to claim ~~110~~<sup>38</sup>, which is replicable in a Chinese Hamster Ovary cell.

~~40~~  
112. A vector according to claim ~~110~~<sup>38</sup>, which is replicable in a COS cell.

~~41~~  
113. A host cell containing a recombinant DNA molecule comprising a DNA sequence defined in claim ~~97~~<sup>25</sup>.

~~42~~  
114. A host cell according to claim ~~113~~<sup>41</sup>, which is a prokaryotic cell.

~~43~~  
115. A host cell according to claim ~~114~~<sup>42</sup>, which is *Escherichia coli*.

~~44~~  
116. A host cell according to claim ~~113~~<sup>41</sup>, which is a eukaryotic cell.

445

117. A host cell according to claim 116, which is a mammalian cell.

44

118. A host cell according to claim 117, which is a Chinese Hamster Ovary cell.

45

119. A host cell according to claim 117, which is a COS cell.

45

120. A recombinant host cell according to claim 119, wherein the DNA molecule

comprises promoter DNA, other than the promoter DNA for the native polypeptide having the ability to bind TNF, operatively linked to <sup>the</sup> DNA sequence <sup>encoding the polypeptide.</sup> ~~defined in claim 96 or 121~~

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121. A process for preparing a polypeptide having the ability to bind TNF comprising producing the polypeptide in a recombinant host cell according to claim 120 under suitable conditions to express the DNA molecule contained therein to produce the polypeptide, and recovering the polypeptide.

50

122. A process for preparing a polypeptide having the ability to bind TNF comprising producing the polypeptide in a recombinant host cell according to claim 120 under suitable conditions to express the DNA molecule contained therein to produce the polypeptide, and recovering the polypeptide.

51

123. A process according to claim 122, further comprising combining the recovered recombinant polypeptide with a pharmaceutically acceptable carrier to form a pharmaceutical composition.

52

124. A process according to claim 123, further comprising chemically derivatizing the <sup>recovered</sup> ~~harvested~~ recombinant polypeptide.

53

125. A process according to claim 124, further comprising combining the chemically derivatized ~~recombinant~~ polypeptide with a pharmaceutically acceptable carrier to form a pharmaceutical composition.



I I <sup>54</sup>126. A process according to claim <sup>53 50</sup>126, wherein <sup>the isolated</sup>~~said recombinant~~ DNA molecule is contained in an expression vector.

<sup>57</sup>127. An isolated DNA molecule according to one of claims <sup>1 2 3 4 16 23 24</sup>~~65, 71, 74, 75, 87, 93 or 96~~ wherein said polypeptide includes at least one additional amino acid at the amino-terminus, at the carboxyl-terminus, or at both the amino-terminus and at the carboxyl-terminus.

<sup>57</sup>128. An isolated DNA molecule according to claim <sup>56</sup>127, wherein said polypeptide includes at least one additional amino acid at the amino-terminus and at the carboxyl-terminus.

<sup>58</sup>129. An isolated DNA molecule according to claim <sup>56</sup>127, wherein said polypeptide includes at least one additional amino acid at the amino-terminus.

<sup>59</sup>130. An isolated DNA molecule according to claim <sup>58</sup>129, wherein said polypeptide includes a methionine at the amino-terminus.

<sup>60</sup>131. An isolated DNA molecule according to claim <sup>56</sup>127, wherein said polypeptide includes at least one additional amino acid at the carboxyl-terminus.

<sup>61</sup>132. An isolated DNA molecule according to claim <sup>1 2 3 4 16 23 24</sup>~~65, 71, 74, 75, 87, 93 or 96~~ wherein said polypeptide includes a methionine at the amino-terminus and said amino acid substitution is at a glycosylation site.

<sup>62</sup>133. An isolated DNA molecule according to claim <sup>1 2 3 4 16 23 24</sup>~~65, 71, 74, 75, 87, 93 or 96~~ wherein said polypeptide includes an amino acid substitution ~~is~~ at a glycosylation site.

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